



STATE OF COLORADO
Department of Natural Resources

ORDER		** IMPORTANT **				
Number: POGG1 PDAA 201700000334		The order number and line number must appear on all invoices, packing slips, cartons and correspondence				
Date: 08/16/16						
Description: pdaa5000 Remote cloud seeder for Gunnison River		BILL TO				
Effective Date: Expiration Date:		COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
BUYER		SHIP TO				
Buyer:		COLORADO WATER BOARD CONSERVATION				
Email:		1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
VENDOR		SHIPPING INSTRUCTIONS				
UPPER GUNNISON RIVER WATER		Delivery/Install Date:				
210 W SPENCER AVE		F.O.B:				
STE B		VENDOR INSTRUCTIONS:				
GUNNISON, CO 81230-2544						
Contact: .						
Phone: 9706416065						
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$25,000.00	<input type="checkbox"/>
Description: pdaa5000 Remote cloud seeder for Gunnison River						
Service From: 08/16/16 Service To: 06/30/17						
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
2	G1000		0	0.00	\$27,642.00	<input type="checkbox"/>
Description: pdaa5000 Remote cloud seeder for Gunnison River						
Service From: 08/16/16 Service To: 06/30/17						
TERMS AND CONDITIONS						
https://www.colorado.gov/osc/purchase-order-terms-conditions						
DOCUMENT TOTAL = \$52,642.00						

Exhibit A
Statement of Work
Date: December 30, 2015

WATER ACTIVITY NAME – Remote Cloud Seeder for Upper Gunnison

GRANT RECIPIENT – Upper Gunnison Cloudseeding Program

FUNDING SOURCE - \$35,000 Lower Basin States, \$5,000 UG Stakeholders & \$25,000 GBRT (requested)

INTRODUCTION AND BACKGROUND

The goal of this project is to purchase, locate, and have in operation by November of 2016, a remotely-controlled cloud seeder constructed by Idaho Power Company (IPC). The model available to purchase is called the RCNG14 (Remote Cloud Nuclei Generator – design revised in 2014). The RCNG14 will join the fleet of 23 other cloud seeders already in use by the Gunnison conduct wintertime cloud seeding operations targeting the Upper Gunnison basin and other surrounding high terrain in Western Colorado. Background: Cloud seeding has been conducted in the Upper Gunnison basin since 2004.

OBJECTIVES

- 1) Locate the RCNG14 in a place that will allow it to effectively seed winter storms and increase snowpack levels in the Upper Gunnison basin.
- 2) Get more water in our reservoirs and rivers.
- 3) Utilize a new vendor for remote cloud seeders who can make an equally reliable product at roughly half the cost.
- 4) Set a precedent where Colorado programs are responsible for maintaining their own generators and eliminate the costly maintenance contracts with out-of-state agencies.

TASKS

Provide a detailed description of each task using the following format

TASK 1 – Procurement of the RCNG14

Description of Task- Once IPC has finished building the RCNG14, they will schedule a delivery date with UGRWCD.

TASK 2 – Delivery, Training, and Setup of the RCNG14

Description of Task: The IPC will deliver the generator and all supporting hardware and documentation. The IPC will conduct a two-day seminar including setup and operation for the

UGRWCD; other entities conducting cloud seeding programs in Colorado will also be invited to this training as the RCNG14 will be the second of its kind in the state.

TASK 3 – Commencement of Operation of the RCNG14

Description of Task UGRWCD will be responsible for setting up a contract with RigNet communication services for the satellite service which is required to communicate and monitor the generator. A maintenance kit must also be purchased from IPC. Once the RCNG14 is set up, the UGRWCD is trained on how to run it, and we can communicate with it, it should be ready to seed storms. Our permit allows us to seed storms that meet the seeding criteria after November 1.

Deliverable: The CWCB will get a final report detailing the process and showing pictures of RCNG14 in its location. Although it is not anticipated, should this project run longer than 6 months, the CWCB will get a progress report detailing where we're at in the process and what is causing any delays.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

BUDGET

Provide a detailed budget by task including number of hours and rates for labor and unit costs for other direct costs (i.e. mileage, \$/unit of material for construction, etc.). A detailed and perfectly balanced budget that shows all costs is required for the State's contracting and purchase order processes. Sample budget tables are provided below. Please note that these budget tables are examples and will need to be adapted to fit each individual application. Tasks should correspond to the tasks described above.

Total Costs				
	Labor	Other Direct Costs	Matching Funds (If Applicable)	Total Project Costs
Task 1 - Procurement		35,000	10,000	35,000
Task 2 – Delivery, Training, & Set-Up		15,000	15,000	15,000
Task 3- Maintenance Kit		10,000	10,000	10,000
In-Kind Contributions	3209.60	565.00		3,774.60
Total Costs:				63,774.60

Other Direct Costs						
Item:	Cloud Seeder	Maintenance Kit	Delivery & Training (covered by State Cloud Seeding Program)			Total
Task 1 - Procurement	35,000					35,000
Task 2 –Delivery & Trng			15,000			15,000
Task 3- Maintenance Kit		10,000				10,000
Total Cost:	35,000	10,000	15,000			60,000

SCHEDULE:

Task	Start Date	Finish Date
1-Procurement	Upon NTP	NTP + 60 days
2 Delivery, Training, & Set-Up	September 1, 2016	October 10, 2016
3Commencement of Operation	November 1, 2016	

NTP = Notice to Proceed

PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.